

Tabla de primitivas

$$1. \int dx = x + C$$

$$2. \int x^n dx = \frac{x^{n+1}}{n+1} + C$$

$$3. \int \frac{dx}{x} = \ln |x| + C$$

$$4. \int e^x dx = e^x + C$$

$$5. \int a^x dx = \frac{a^x}{\ln a} + C$$

$$6. \int \operatorname{sen} x dx = -\cos x + C$$

$$7. \int \cos x dx = \operatorname{sen} x + C$$

$$8. \int (1 + \tan^2 x) dx = \tan x + C$$

$$9. \int \frac{dx}{\cos^2 x} dx = \tan x + C$$

$$10. \int -(1 + \coth^2 x) dx = \operatorname{cotan} x + C$$

$$11. \int -\frac{dx}{\operatorname{sen}^2 x} dx = \operatorname{cotan} x + C$$

$$12. \int \frac{1}{\sqrt{1-x^2}} dx = \operatorname{arcsen} x + C$$

$$13. \int \frac{-1}{\sqrt{1-x^2}} dx = \arccos x + C$$

$$14. \int \frac{1}{1+x^2} dx = \arctan x + C$$

$$15. \int \operatorname{senh} dx = \cosh x + C$$

$$16. \int \cosh dx = \operatorname{senh} x + C$$

$$\int f^n(x) f'(x) dx = \frac{f^{n+1}(x)}{n+1} + C$$

$$\int \frac{f'(x) dx}{f(x)} = \ln |f(x)| + C$$

$$\int f'(x) e^{f(x)} dx = e^{f(x)} + C$$

$$\int a^{f(x)} f'(x) dx = \frac{a^{f(x)}}{\ln a} + C$$

$$\int f'(x) \operatorname{sen} f(x) dx = -\cos f(x) + C$$

$$\int f'(x) \cos f(x) dx = \operatorname{sen} f(x) + C$$

$$\int f'(x) (1 + \tan^2 f(x)) dx = \tan f(x) + C$$

$$\int \frac{f'(x)}{\cos^2 f(x)} dx = \tan f(x) + C$$

$$\int -f'(x) (1 + \coth^2 f(x)) dx = \operatorname{cotan} f(x) + C$$

$$\int -\frac{f'(x)}{\operatorname{sen}^2 f(x)} dx = \operatorname{cotan} f(x) + C$$

$$\int \frac{f'(x)}{\sqrt{1-f^2(x)}} dx = \operatorname{arcsen} f(x) + C$$

$$\int \frac{-f'(x)}{\sqrt{1-f^2(x)}} dx = \arccos f(x) + C$$

$$\int \frac{f'(x)}{\sqrt{1+f^2(x)}} dx = \arctan f(x) + C$$

$$\int f'(x) \operatorname{senh} f(x) dx = \cosh f(x) + C$$

$$\int f'(x) \cosh f(x) dx = \operatorname{senh} f(x) + C$$